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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/725,489	12/03/2003	Mark Zoller	T1530-00018	3973
Duane Morris LLP 1667 K Street, NW			EXAMINER	
			LANDSMAN, ROBERT S	
Washington, DC 20006			ART UNIT	PAPER NUMBER
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
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If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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DETAILED ACTION

1. Formal Matters

A. The Amendment filed 12/19/06 has been entered into the record.

B. Claims 194-234 were pending. Claims 235-253 have been added. Therefore, claims 194-253 are

pending and are the subject of this Office Action.

C. All Statutes under 35 USC not found in this Office Action can be found, cited in full, in a

previous Office Action.

2. Specification

A. All objections to the specification have been withdrawn in view of Applicants' amendments except for the following – Though Applicants have pointed out that Figure 3C does appear in the Brief Description, the beginning of the Description must refer to Figure 3C (e.g. "Figures 3A-3C contain...")

B. Figure 1 is objected to since it recites "rate" instead of "rat."

C. Figure 1 is further objected to since the names of all the T1Rs are not legible. This is especially

important since various claims (e.g. claim 230) refer to this Figure.

3. Claim Objections

A. The objection to claim 203 regarding "comprised in" has been withdrawn in view of Applicants' amendment.

4. Claim Rejections - 35 USC § 112, first paragraph - scope of enablement

A. Claims 194-234 remain rejected and new claims 235-253 are also rejected under 35 USC 112, first paragraph, for the reasons already of record on pages 3-4 of the Office Action mailed 9/20/06. Applicants have amended the claims to further limit the claimed genus. However, the genus of T1R1 and T1R3 receptors is still excessive with regard to claims 194, 216 and 225. These claims encompass the genus of receptors which hybridize under specific conditions to known receptors. Applicants imply in

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their claims that T1R1 and T1R3 receptors from 3 different species have been disclosed. However, due to the poor reproduction quality of Figure 1, which discloses the supposed receptors, the Examiner cannot identify three T1R1 and T1R3 receptors. Therefore, it appears Applicants have only provided guidance and working examples of, at most, two T1R1 receptors and two T1R3 (rat and human) receptors and nucleic acids (Figure 1). Therefore, undue experimentation would be required for the artisan to make and use the invention as claimed.

In addition, claim 240 recites that the receptors are "derived from" the same species. Again, the breadth of the claims is excessive with regard to claiming all T1R1/T1R3 receptors which are "derived from" a particular animal species. Applicants have only identified one T1R2 sequence and two T1R3 sequences Derivatives would have one or more amino acid substitutions, deletions, insertions and/or additions to the claimed proteins.

The Examiner may withdraw this rejection with regard to the genus of T1R1 and T1R3 receptors if Applicants can demonstrate that these genii were well known at the time of the present invention (i.e. more than two known receptors) and that the structural similarities were sufficient enough for the artisan to identify members of these genii.

B. Claims 235-253 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The claims recite "a recombinant cell." However, it doesn't require that the cell be isolated. Therefore, the claims read on genetically modified cells (i.e. gene therapy).

5. Claim Rejections - 35 USC § 112, first paragraph - written description

A. Claims 194-234 remain rejected and new claims 235-253 are also rejected under 35 USC 112, first paragraph, for the reasons already of record on pages 4-5 of the Office Action mailed 9/20/06. Applicants have amended the claims to further limit the claimed genus. These claims encompass the genus of receptors which hybridize under specific conditions to known receptors. However, the genus of T1R1 and T1R3 receptors is still not described.

Applicants recite, or imply, in their claims that T1R1 and T1R3 receptors from 3 different species have been disclosed. However, due to the poor reproduction quality of Figure 1, which discloses the supposed receptors, the Examiner cannot identify three T1R1 and T1R3 receptors. Therefore, it appears

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Applicants have only adequately described at most two T1R1 and two T1R3 (rat and human) receptors and nucleic acids and not the genus of each.

In addition, claim 240 recites that the receptors are "derived from" the same species. Again, genus of all T1R1/T1R3 receptors which are "derived from" a particular animal species is not well described. Applicants have only identified at most two T1R1 sequence and two T1R3 sequences. Derivatives would have one or more amino acid substitutions, deletions, insertions and/or additions to the claimed proteins.

The Examiner may withdraw this rejection with regard to the genus of T1R1 and T1R3 receptors if Applicants can demonstrate that these genii were well known at the time of the present invention (i.e. more than two known receptors) and that the structural similarities were sufficient enough for the artisan to identify members of these genii.

6. Claim Rejections - 35 USC § 112, first paragraph - new matter

A. Claims 194-253 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicants have added hybridization conditions into at least claims 194, 216 and 225 and state that support for these conditions can be found throughout the specification. However, upon reviewing the large specification, the Examiner was unable to find any disclosure of the exact conditions newly added to the claims.

7. Claim Rejections - 35 USC § 112, second paragraph

A. All rejections under 35 USC 112, second paragraph, have been withdrawn in view of Applicants' amendments to the claims.

8. Double Patenting

A. Claims 194-234 remain rejected and new claims 235-253 are also rejected for the reasons already of record on page 6 of the Office Action 9/21/06. Applicants ask that this rejection be held in abeyance until the application is allowable.

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9. Conclusion

A. No claim is allowable.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Advisory information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Landsman whose telephone number is (571) 272-0888. The examiner can normally be reached on M-Th 10 AM - 7 PM (eastern).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on 571-272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Robert Landsman Primary Examiner Art Unit 1647